

WHAT IS CLAIMED IS:

1. A method for locating the center of a circle, said method comprising the steps of:
  - establishing a first point at the edge of said circle;
  - positioning a second and third point at different locations at the edge of said circle;
  - maintaining accurate spatial relationship between said first, second, and third point and a fourth point such that said spatial relationship results in said fourth point to be at the center of said circle; and
  - adjusting said accurate spatial relationship for the dimensions of said circle to be measured.
2. A method in accordance with Claim 1 wherein the said step of adjusting said accurate spatial relationship between said first, second, third, and fourth point further comprises the steps of:
  - rotating an assembly of components about a pivot point that is at the edge of said circle, where said pivot point is said first point at the edge of the circle; and
  - moving a component of said assembly, said component being held in accurate spatial relationship to said pivot point, where said movement positions a first and second specific portion of said component at different locations at the edge of said circle where said first specific portion is said second point at the edge of the circle and said second specific portion is said third point at the edge of said circle, and where said movement positions a third specific portion of said component at the center of said circle, where said third specific portion is said fourth point at the center of said circle.
3. A method in accordance with Claim 1 wherein said step of adjusting said accurate spatial relationship between said first, second, third, and fourth point further comprises the steps of:

rotating an assembly of components about a pivot point that is at the edge of said circle, where said pivot point is said first point at the edge of the circle; and

moving components of said assembly, where said components are held in accurate spatial relationship to each other and said pivot point, where said movement positions a first and second specific portion of said components at different locations at the edge of said circle where said first specific portion is said second point at the edge of the circle and said second specific portion is said third point at the edge of said circle, and where said movement positions a third specific portion of said components at the center of said circle, where said third specific portion is said fourth point at the center of said circle.

4. An apparatus for locating the center of a circle, said apparatus comprising:

a first component with a specific portion that may be positioned at a point on the edge of a circle;

a second component that is held in accurate spatial relationship with said first component, where said second component may be moved relative to said first component, whereby the means of holding said accurate spatial relationship positions a first specific portion of said second component at the center of a circle when a second and third specific portion of the component are positioned by said movement at the edge of said circle when the said specific portion of said first component is also at the edge of said circle.

5. A apparatus in accordance with Claim 4 wherein said means of holding said accurate spatial relationship positions said first specific portion of said second component at the center of a given circle within a range of circle sizes when said second and third specific portions of said second component are moved to the edge of said given circle within the same said range of circle sizes.

6. A apparatus in accordance with Claim 5 wherein said specific portion of said first component is a pivot point.

7. An apparatus for locating the center of a circle, said apparatus comprising:

a first component with a specific portion that may be positioned at a point on the edge of a circle;

a second assembly of components that are held in accurate spatial relationship with each other and said first component, where said second assembly of components may be moved relative to said first component, whereby the means of holding said accurate spatial relationship positions a first specific portion of said second assembly of components at the center of a circle when a second and third specific portion of said assembly of components are positioned by said movement at the edge of said circle when the said specific portion of said first component is also at the edge of said circle.

8. A apparatus in accordance with Claim 4 wherein said means of holding said accurate spatial relationship positions said first specific portion of said second assembly of components at the center of a given circle within a range of circle sizes when said second and third specific portions of said second assembly of components are moved to the edge of said given circle within the same said range of circle sizes.

9. A apparatus in accordance with Claim 5 wherein said specific portion of said first component is a pivot point.